

Objectives

- Recommend common injury coding standards across transportation modes
- Develop uniform event definitions
- Develop common injury reporting criteria
- Provide sufficiently robust data to:
 - Develop mitigation strategies
 - Prioritize research and resource allocation

General Approach

- Form working group
- Inventory DOT and selected non-DOT databases
- Describe current definitions/processes/ injury coding schemes
- Develop recommendations for a common scheme

Develop Common Criteria for Injury and Fatality Reporting

Purpose of Injury Reporting

- Help determine incident severity and cost
- Provide objective basis for development of injury mitigation/prevention strategies
- Provide basis for management decisions
 - Resource prioritization
 - Resource allocation
 - Research

Elements of Injury Reporting

- Injury location
 - Body region/organ system
 - Aspect
- Injury type/description
- Injury severity
- Injury cause/mechanism

Develop Common Criteria for Injury and Fatality Reporting

Findings

- High degree of variability among databases:
 - Event definition
 - Injury definitions
 - Inclusion criteria
 - Investigation methodology
 - Injury reporting

Findings (Cont.)

- Little or no coordination between agencies
- Reporting criteria range from rudimentary to highly sophisticated
- Definitions and scope frequently established by statutory mandates
- AIS is the most prevalent injury coding scheme

Develop Common Criteria for Injury and Fatality Reporting

- Reportable event
 - Transportation incident
 - Defined as previously noted
- Transportation-related injury
 - Any injury requiring medical attention beyond first aid incurred as the result of a reportable event
 - First aid-emergency treatment pending definitive medical care

Recommendations

- Fatality definition
 - Fatality resulting from injuries sustained in a transportation incident when the death occurs within 30 days of the incident
- Uninjured
 - Uninjured persons involved in a transportation incident should be reported

Develop Common Criteria for Injury and Fatality Reporting

- Injury Coding
- Adopt a system similar to the NASS CDS
 - Minimum elements for each injury:
 - Source of recorded injury data
 - Complete AIS 90 code
 - Injury Aspect 1
 - Injury Aspect 2
 - Multiple mechanism fields

Recommendations

- Injury aspect
 - AIS does not include aspect information
 - Locating the injury to right-left, inferiorsuperior, anterior-posterior is important to determining injury mechanisms
 - Use of several fields more accurately describes location

Develop Common Criteria for Injury and Fatality Reporting

- Injury mechanism
 - Attributes trauma to the physical source of injury
 - Essential for the determination of prevention strategies
 - If you do not know what caused the injury, how can you prevent it?
 - Basic coding structure can be applied to all modes
 - Specific codes will be unique to each mode

Recommendations

- Statistical Sampling
 - Should consider opportunities for statistical sampling of incidents within modes
 - Requires a relatively high volume of incidents
 - Currently utilized by NASS CDS
 - Probably practical for general aviation and recreational boating

Develop Common Criteria for Injury and Fatality Reporting

- Database linkage
 - Consider opportunities for linkage to other databases
 - Hospital
 - Vital statistics
 - Other medical databases

Conclusions

- Adoption of the Working Group recommendations will require considerable change for most modes
- Changes are essential for establishing a robust injury surveillance system able to support the vision of the DOT